This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended): In a transistor device containing a semiconductor or charge transport material, the improvement wherein said material comprises at least one oligomer or polymer of formula I

wherein

X is -C=C- or is selected from formulae IIa-IId, IIf-IIi, IIm, IIn and their mirror images

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$$\begin{array}{c} (R)_r \\ (R)_r \end{array}$$
 IIc

- R is in each case independently H, halogen, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, or P-Sp-,
- r is 0, 1, 2, 3 or 4,
- s is 0, 1, 2 or 3,
- R^1 R^4 are independently of each other H, halogen, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, or P-Sp-,
- P is a polymerisable or reactive group,
- Sp is a spacer group or a single bond, and
- n is an integer > 1,

with the provisos that:

- (1) X is not unsubstituted 1,4-phenylene, 2,5-dialkyl-1,4-phenylene, or 2,5-dialkoxy-1,4-phenylene; and
- (2) if X is naphthalene-2,6-diyl that is unsubstituted or substituted in 1-, 4-, 5-, and/or 8-position with alkoxy, dimethylsiloxane or oxymethyloxirane, then both R^1 and R^2 are other than H and/or both R^3 and R^4 are other than H; and
- (3) in formula IIc, at least one of the r subscript is 1, 2, 3, or 4 and at least one R is F, Cl, alkyl having 1 to 15 carbon atoms, fluorinated alkyl having 1 to 15 carbon atoms, or alkoxy having 1 to 15 carbon atoms.
- 2. (Currently Amended): In a transistor device containing a semiconductor or charge transport material, the improvement wherein said material comprises at least one oligomer or polymer of formulae Ia Ic:

$$* \underbrace{ \begin{cases} S \\ R^{1} \end{cases}} X \underbrace{ \begin{cases} S \\ R^{2} \end{cases}}$$
 Ib

$$* - \begin{bmatrix} S & R^1 \\ Ar & S \end{bmatrix}_n *$$
Ic

wherein

X is -C≡C-, optionally substituted arylene, or optionally substituted heteroarylene,

 R^1 - R^4 are independently of each other halogen, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, or P-Sp-,

P is a polymerisable or reactive group,

Sp is a spacer group or a single bond,

n is an integer > 1, and

Ar is arylene or heteroarylene,

wherein

X is not unsubstituted 1,4-phenylene, 2,5-dialkyl-1,4-phenylene, or 2,5-dialkoxy-1,4-phenylene, and

if X is naphthalene-diyl it is substituted or unsubstituted naphthalene-2,6-diyl or

naphthalene-4,8-diyl, and

ArR¹R² is not naphthalene-2,6-diyl or naphthalene-4,8-diyl that is substituted in 1-, 4-, 5-, and/or 8-position with alkoxy, dimethylsiloxane or oxymethyloxirane, and

if X is biphenyl it is substituted by at least one F, Cl, alkyl having 1 to 15 carbon atoms, fluorinated alkyl having 1 to 15 carbon atoms, or alkoxy having 1 to 15 carbon atoms.

3. (Previously Presented): A device according to claim 1, wherein said oligomer or polymer is of formula I1

$$R^{5} \xrightarrow{S} X \xrightarrow{S} \xrightarrow{J_{n}} R^{6}$$

$$R^{1} \xrightarrow{R^{3}} R^{4} \xrightarrow{R^{2}} R^{2}$$

$$I1$$

wherein

R⁵ and R⁶ are independently of each other H, halogen, B(OR⁷)(OR⁸), SnR⁹R¹⁰R¹¹, straight chain, branched or cyclic alkyl with 1 to 20 C-atoms, which is unsubstituted, mono- or polysubstituted by F, Cl, Br, I or CN, and wherein one or more non-adjacent CH₂ groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -SO₂-, -S-CO-, -CO-S-, -CH=CH- or -C≡C- in such a manner that O and/or S atoms are not linked directly to one another, optionally substituted aryl, optionally substituted heteroaryl or P-Sp-,

 R^{0} and R^{00} are independently of each other H or alkyl with 1 to 12 C-atoms,

R⁷ and R⁸ are independently of each other H or alkyl with 1 to 12 C-atoms, or OR⁷ and OR⁸ together with the boron atom form a cyclic group having 2 to 10 C atoms, and

R⁹ to R¹¹ are independently of each other H or alkyl with 1 to 12 C-atoms.

4. (Currently Amended): A device according to claim $\underline{2}$ 3, wherein said oligomer or polymer is selected from formulae I1a - I1c:

$$R^{5} = \begin{bmatrix} S \\ X \end{bmatrix}_{n} R^{6}$$
 I1a

$$R^{5} \xrightarrow{S} X \xrightarrow{S} \xrightarrow{n} R^{6}$$
 IIb

$$R^{5} = \begin{bmatrix} S & R^{1} \\ I & S \end{bmatrix}_{n} R^{6}$$
Ilc.

R⁵ and R⁶ are independently of each other H, halogen, B(OR⁷)(OR⁸), SnR⁹R¹⁰R¹¹, straight chain, branched or cyclic alkyl with 1 to 20 C-atoms, which is unsubstituted, mono- or polysubstituted by F, Cl, Br, I or CN, and wherein one or more non-adjacent CH₂ groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -SO₂-, -S-CO-, -CO-S-, -CH=CH- or -C=C- in such a manner that O and/or S atoms are not linked directly to one another, optionally substituted aryl, optionally substituted heteroaryl or P-Sp-,

R⁰ and R⁰⁰ are independently of each other H or alkyl with 1 to 12 C-atoms,

R⁷ and R⁸ are independently of each other H or alkyl with 1 to 12 C-atoms, or OR⁷ and OR⁸ together with the boron atom form a cyclic group having 2 to 10 C atoms, and

R⁹ to R¹¹ are independently of each other H or alkyl with 1 to 12 C-atoms.

- 5. (Previously Presented): A device according to claim 1, wherein said material contains an oligo- or polymer of formula I having a regioregularity of at least 95%.
 - 6. (Previously Presented): A device according to claim 1, wherein n is an integer

from 2 to 5000.

- 7. (Previously Presented): A device according to claim 1, wherein R^1 to R^4 are each independently selected from H, halogen, straight chain, branched or cyclic alkyl with 1 to 20 C-atoms, which is unsubstituted, mono- or polysubstituted by F, Cl, Br, I or CN, and wherein one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -SO₂-, -S-CO-, -CO-S-, -CH=CH- or -C=C- in such a manner that O and/or S atoms are not linked directly to one another, optionally substituted aryl, optionally substituted heteroaryl and P-Sp-, and R^0 and R^{00} are independently of each other H or alkyl with 1 to 12 C-atoms.
- 8. (Withdrawn): A device according to claim 1, wherein R^1 to R^4 are each independently selected from C_1 - C_{20} -alkyl that is optionally substituted with one or more fluorine atoms, C_1 - C_{20} -alkenyl, C_1 - C_{20} -alkynyl, C_1 - C_{20} -alkoxy, C_1 - C_{20} -thioalkyl, C_1 - C_{20} -silyl, C_1 - C_{20} -ester, C_1 - C_{20} -amino, C_1 - C_{20} -fluoroalkyl, $(CH_2CH_2O)_m$ with m being an integer from 1 to 6, optionally substituted aryl, optionally substituted heteroaryl.
- 9. (Withdrawn): A device according to claim 1, wherein R^1 to R^4 are each independently selected from C_1 - C_{20} -alkyl or C_1 - C_{20} -fluoroalkyl.
 - 10. (Cancelled):
- 11. (Currently Amended): A device according to claim 1, wherein X is selected from formulae IIa, IIc, IId, IIf-IIi, IIm, IIn and their mirror images

9

wherein

- R is in each case independently halogen, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, or P-Sp-, and
- r is 0, 1, 2, 3 or 4.
- 12. (Withdrawn): A device according to claim 2, wherein $Ar(R^1R^2)$ is selected from formulae IIIa IIIe and their mirror images

wherein

R' is in each case independently of each other H, halogen, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, or P-Sp-.

13. (Previously Presented): A oligomer or polymer of formula Ia - Ic

wherein

X is $-CX^1=CX^2$ -, $-C\equiv C$ -, optionally substituted arylene, or optionally substituted heteroarylene,

 X^1 and X^2 are independently of each other H, F, Cl or CN,

- R^1 R^4 are independently of each other halogen, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, or P-Sp-,
- P is a polymerisable or reactive group,
- Sp is a spacer group or a single bond, and
- n is an integer > 1, and
- Ar is arylene or heteroarylene,

with the provisos that

- a) if X is unsubstituted thiophene-2,5-diyl, then at least one of R¹⁻⁴ is alkyl that is monoor polysubstituted by F, Cl, Br, I or CN, cycloalkyl that is mono- or polysubstituted by F, Cl, Br, I or CN, optionally substituted aryl, optionally substituted heteroaryl, or P-Sp-, and
- b) X and $Ar(R^1R^2)$ are different from dithienothiophene, 1,4-phenylene, 2,5-dialkyl- or 2,5-dialkoxy-1,4-phenylene, furan-2,5-diyl, 1-alkyl-1H-pyrrol-2,5-diyl, 9H-fluorene-2,7-diyl, 9,9-dialkyl-9H-fluorene-2,7-diyl, N-alkyl-9H-carbazole-2,7-diyl and anthracene-9,10-diyl, and
- c) Ar(R¹R²) is different from 2,5-dialkyl- or 2,5-dialkoxy-1,4-phenylene, naphthalene-2,6-diyl, naphthalene-4,8-diyl that is substituted in 1-, 4-, 5- and/or 8-position with alkoxy, dimethylsiloxane or oxymethyloxirane groups, 9,9-dialkyl-9H-fluorene-2,7-diyl and N-alkyl-9H-carbazole-2,7-diyl.
 - 14. (Cancelled):
 - 15. (Cancelled):

- 16. (Cancelled):
- 17. (Cancelled):
- 18. (Withdrawn): In a effect transistors (FET) or thin film transistor (TFT), containing semiconductor or charge transport material, the improvement wherein said material contains a mono-, oligo- or polymer according to claim 13.
 - 19. (Cancelled):
- 20. (Withdrawn): In a battery containing electrode material, the improvement wherein said material contains a mono-, oligo- or polymer according to claim 13.
- 21. (Withdrawn): In a battery containing electrode material, the improvement wherein said material contains a mono-, oligo- or polymer according to claim 13.
- 22. (Withdrawn): In a photoconductor, the improvement wherein said photoconductor contains a mono-, oligo- or polymer according to claim 13.
- 23. (Withdrawn): In a method of electrophotographic recording, the improvement wherein a mono-, oligo- or polymer according to claim 13 is employed as electrophotographic material.
- 24. (Currently Amended): A device according to claim 1, wherein said device is a field effect transistor (FET).
- 25. (Previously Presented): A device according to claim 1, wherein said device is a thin film transistor or a thin film transistor array for flat panel displays.
- 26. (Previously Presented): In a security marking or device comprising a FET, the improvement wherein said FET is according to claim 24.
- 27. (Withdrawn): A mono-, oligo- and polymer, material or polymer as defined in claim 13, which is oxidatively or reductively doped to form conducting ionic species.

- 28. (Withdrawn): In a charge injection layer, planarising layer, antistatic film or conducting substrate or pattern for electronic applications or flat panel displays, the improvement wherein said layer, film, substrate, pattern or display contains a mono-, oligo- or polymer, material or polymer according to claim 27.
 - 29. (Cancelled):
 - 30. (Cancelled):
 - 31. (Cancelled):
 - 32. (Cancelled):
- 33. (Previously Presented): A device according to claim 4, wherein R^5 to R^6 are independently of each other H, halogen, $B(OR^7)(OR^8)$, $SnR^9R^{10}R^{11}$, optionally substituted aryl, optionally substituted heteroaryl, P-Sp-, or straight chain, branched or cyclic alkyl with 1 to 20 C-atoms, which mono- or polysubstituted by F, Cl, Br, I or CN, and wherein one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR 0 -, -SiR 0 R 00 -, -CO-, -COO-, -OCO-O-, -SO $_2$ -, -S-CO-, -CO-S-, -CH=CH- or -C \equiv C- in such a manner that O and/or S atoms are not linked directly to one another.
- 34. (Previously Presented): A device according to claim 4, wherein R^5 to R^6 are independently of each other H, halogen, $B(OR^7)(OR^8)$, $SnR^9R^{10}R^{11}$, optionally substituted aryl, optionally substituted heteroaryl, P-Sp-, or straight chain, branched or cyclic alkyl with 1 to 20 C-atoms wherein one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR 0 -, -SiR $^0R^{00}$ -, -CO-, -COO-, -OCO-, -OCO-, -OCO-OCO-, -SO₂-, -S-CO-, -CO-S-, -CH=CH- or -C=C- in such a manner that O and/or S atoms are not linked directly to one another and which is unsubstituted or mono- or polysubstituted by F, Cl, Br, I or CN.
 - 35. (Cancelled):

- 36. (Withdrawn): A mono-, oligo- or polymer according to claim 13, wherein said mono-, oligo- or polymer is of formula Ia and at least one of R³ and R⁴ is halogen, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, or P-Sp-.
 - 37. (Cancelled):
 - 38. (Cancelled):
 - 39. (Cancelled):
 - 40. (Cancelled):
- 41. (Previously Presented): A device according to claim 1, wherein said mono-, oligo- or polymer is selected from formulae I1a I1c:

$$R^{5} = \begin{bmatrix} S \\ X \end{bmatrix}_{n} R^{6}$$

$$R^{3} R^{4}$$
IIa

$$R^{5} \xrightarrow{S} X \xrightarrow{S} R^{6}$$
 IIb

$$R^{5} = \begin{bmatrix} S & R^{1} \\ Ar & S \end{bmatrix}_{n} R^{6}$$
Ilc

15

wherein

- P is a polymerisable or reactive group,
- Sp is a spacer group or a single bond,
- R¹ R⁴ are independently of each other halogen, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, or P-Sp-,
- R^5 to R^6 are independently of each other H, halogen, $B(OR^7)(OR^8)$, $SnR^9R^{10}R^{11}$, straight chain, branched or cyclic alkyl with 1 to 20 C-atoms, which is unsubstituted, mono- or polysubstituted by F, Cl, Br, I or CN, and wherein one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, $-NR^0$ -, $-SiR^0R^{00}$ -, -CO-, -COO-, -OCO-, -OCO-O-, -SO₂-, -S-CO-, -CO-S-, -CH=CH- or -C=C- in such a manner that O and/or S atoms are not linked directly to one another, optionally substituted aryl, optionally substituted heteroaryl or P-Sp-,
- R⁷ and R⁸ are independently of each other H or alkyl with 1 to 12 C-atoms, or OR⁷ and OR⁸ together with the boron atom form a cyclic group having 2 to 10 C atoms,
- R⁹ to R¹¹ are independently of each other H or alkyl with 1 to 12 C-atoms,
- R^0 and R^{00} are independently of each other H or alkyl with 1 to 12 C-atoms,
- Ar is arylene or heteroarylene, and
- n is an integer $n>1 \ge 1$.
 - 42. (Cancelled):
- 43. (Previously Presented): In a transistor device containing a semiconductor or charge transport material, the improvement wherein said material comprises at least one monomer of formula I1

$$R^{5} \xrightarrow{S} X \xrightarrow{S} \xrightarrow{n} R^{6}$$

$$R^{1} \xrightarrow{R^{3}} R^{4} \xrightarrow{R^{2}} R^{2}$$

$$I1$$

R¹ - R⁴ are independently of each other H, halogen, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, or P-Sp-,

 R^5 and R^6 are independently of each other H, halogen, $B(OR^7)(OR^8)$, $SnR^9R^{10}R^{11}$, straight chain, branched or cyclic alkyl with 1 to 20 C-atoms, which is unsubstituted, mono- or polysubstituted by F, Cl, Br, I or CN, and wherein one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-O-, -SO₂-, -S-CO-, -CO-S-, -CH=CH- or -C=C- in such a manner that O and/or S atoms are not linked directly to one another, optionally substituted aryl, optionally substituted heteroaryl or P-Sp-,

R⁰ and R⁰⁰ are independently of each other H or alkyl with 1 to 12 C-atoms,

 R^7 and R^8 are independently of each other H or alkyl with 1 to 12 C-atoms, or OR^7 and OR^8 together with the boron atom form a cyclic group having 2 to 10 C atoms,

R⁹ to R¹¹ are independently of each other H or alkyl with 1 to 12 C-atoms,

X is -C≡C- or is selected from formulae IIa-IId, IIf-IIi, IIm, IIn and their mirror images

IIc

IId

Πf

IIg

$$\langle N \rangle$$

IIh

Iii

IIm



R is in each case independently H, halogen, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, or P-Sp-,

- r is 0, 1, 2, 3 or 4,
- s is 0, 1, 2 or 3,
- P is a polymerisable or reactive group,
- Sp is a spacer group or a single bond, and
- n is 1,

with the provisos that:

- (1) X is not unsubstituted 1,4-phenylene, 2,5-dialkyl-1,4-phenylene, or 2,5-dialkoxy-1,4-phenylene; and
- (2) if X is naphthalene-2,6-diyl that is unsubstituted or substituted in 1-, 4-, 5-, and/or 8-position with alkoxy, dimethylsiloxane or oxymethyloxirane, then both R^1 and R^2 are other than H and/or both R^3 and R^4 are other than H; and
- (3) in formula IIc, at least one of the r subscript is 1, 2, 3, or 4 and at least one R is F, Cl, alkyl having 1 to 15 carbon atoms, fluorinated alkyl having 1 to 15 carbon atoms, or alkoxy having 1 to 15 carbon atoms.
- 44. (Previously Presented): A device according to claim 43, wherein said monomer is selected from formulae I1a I1c:

$$R^{5} = \begin{bmatrix} S \\ X \end{bmatrix}_{n} R^{6}$$
 I1a

$$R^{5} \xrightarrow{S} X \xrightarrow{S} \xrightarrow{n} R^{6}$$
 IIb

$$R^{5} = \begin{bmatrix} S \\ Ar \\ R^{2} \end{bmatrix} \xrightarrow{R^{6}} R^{6}$$
Ilc

- R¹ R⁴ are independently of each other halogen, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, or P-Sp-, and
- Ar is arylene or heteroarylene, wherein ArR¹R² is not naphthalene-2,6-diyl or naphthalene-4,8-diyl that is substituted in 1-, 4-, 5-, and/or 8-position with alkoxy, dimethylsiloxane or oxymethyloxirane.
- 45. (New): A device according to claim 1, wherein R and R¹ to R⁴ are each independently selected from H, halogen, straight chain, branched or cyclic alkyl with 1 to 20 C-atoms, which is unsubstituted, mono- or polysubstituted by F, Cl, Br, I or CN, and wherein one or more non-adjacent CH_2 groups are optionally replaced, in each case independently from one another, by -O-, -S-, -NH-, -NR⁰-, -SiR⁰R⁰⁰-, -CO-, -COO-, -OCO-, -OCO-O-, -SO₂-, -S-CO-, -CO-S-, -CH=CH- or -C \equiv C- in such a manner that O and/or S atoms are not linked directly to one another, optionally substituted aryl, optionally substituted heteroaryl and P-Sp-, and R⁰ and R⁰⁰ are independently of each other H or alkyl with 1 to 12 C-atoms.
- 46. (New): A device according to claim 1, wherein X is selected from formulae IId, IIf-IIi, IIm, IIn and their mirror images

20